

NEW CLAIM LANGUAGE WITH INCORPORATED AMENDMENTS

1. Apparatus in a UNIX-based environment for providing scheduling at one time of a plurality of tasks of more than one application among processes in more than one computing node, each node having a plurality of local processes, comprising:

global scheduler means for dynamically creating a global prioritized schedule of said plurality of tasks of said more than one application to allow execution of different tasks of more than one application at the same time at the computing nodes; and

at least one local scheduler associated with each of said more than one computing node comprising means for receiving said global prioritized schedule, means for ascertaining which of said plurality of tasks are assigned tasks, being assigned to each of said plurality of local processes, means for prioritizing said assigned processes, and means to update a local priority list to include said assigned processes in accordance with said global prioritized schedule to allow simultaneous execution of tasks from said more than one application.

11. A method in a UNIX-based computing environment for scheduling a plurality of tasks of more than one application among processes on at least one computing node, in a system having a global scheduler means and at least one computing node, each computing node having a local scheduler associated therewith and a plurality of local processes comprising the steps of:

providing application information to said global scheduler means;

dynamically creating a global prioritized schedule of said plurality of tasks, said schedule including tasks of said more than one application;

communicating said global prioritized schedule to said more than one computing node;

determining correspondence between said plurality of tasks and said plurality of local processes; and

dynamically prioritizing said local processes in accordance with said global prioritized schedule to allow simultaneous execution of tasks from said more than one application.